



PROPOSED AGENDA ITEM

MEETING DATE: November 23, 2010

SUBJECT: Bid award- Industrial Robot

SUBMITTED BY: Paul Fritz, Business Manager

DESCRIPTION:

Bid proposals were solicited for the purchase of an Industrial Robot. Proposals were received and opened on the due date November 12, 2010

Bid specifications were advertised in the Erie Times News and posted to the ECTS webpage.

FANUC Robotics America Corp. is the lowest responsible bidder at a price of \$24,218.00. All terms and conditions of the bid specifications are met in their proposal.

Funding for this purchase is by a grant from Workforce Leadership Partnership and Precision Manufacturing Institute (PMI) and local funding.

Bids proposals were received from:

- FANUC Robotics America Corp, Rochester Hills, Michigan \$24,218.00
- The Lincoln Electric Company, Cleveland, Ohio \$35,116.00

RECOMMENDATION:

Motion to approve the bid proposal from FANUC Robotics America Corp for the purchase of an Industrial Robot as specified at a price of \$24,218.00

3. PRICING BID FORM

Description		Total Bid Price
Industrial Robot- as specified- all items included	6-AXIS	\$ 24,218 -OR-
	5-AXIS	\$ 22,070

* Please reference FANUC Robotics Proposal No. 29337

4. SIGNATURE

Having carefully reviewed the Bid Specifications supplied by Erie County Technical School and being completely familiar with all requirements and conditions set forth, the under signed agrees to supply all materials and services required for the project. The undersigned further acknowledges the right of Erie County Technical School to reject any and all bids and to waive any defect in form. The undersigned further certifies that this bid was prepared independently and without collusion with any known bidders in compliance with the Pennsylvania Anti-Bid-Rigging Act

Firm Name FANUC Robotics America, Corp.

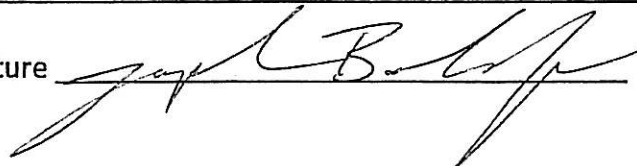
Address 3900 West Hamlin Road

City, State, Zip Code Rochester Hills, MI 48309

Phone 248-377-7000

By Joseph Baldiga

Title Inside Sales and Support

Signature  Date 11/11/10

3. PRICING BID FORM

Description	QUOTE Number	Total Bid Price
Industrial Robot- as specified- all items included	20094190	\$ 35116
ALTERNATIVE SYSTEM FOR ROBOTIC WELDING, MATERIAL HANDLING, and over \$8,000 in DONATIONS, see attached QUOTE #20094243	20094243	\$ 46,716

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Firm Name The LINCOLN ELECTRIC COMPANY

Address 22801 SAINT CLAIR AVE.

City, State, Zip Code CLEVELAND, OH 44117

Phone 216-481-8100

By MARTY Siddall

Title TECHNICAL SALES REPRESENTATIVE

Signature Marty Siddall Date 11/10/10



8500 Oliver Road, Erie, PA 16509

814-464-8600

www.ects.org

An equal rights and opportunities school

October 21, 2010

The Joint Operating Committee of Erie County Technical School is seeking bids for:

Industrial Robot

Bid proposals must be received no later than 11:00 AM, November 12, 2010. The bid proposals will be publicly opened at that time

Bids are scheduled to be awarded at the November 23, 2010 Joint Operating Committee Meeting

1. GENERAL SPECIFICATIONS

- A. All bids must be submitted in a sealed envelope labeled '**Erie County Technical School Industrial Robot**' and delivered to Paul Fritz, Business Manager, Erie County Technical School, 8500 Oliver Road, Erie, PA 16509-4699.
- B. The Erie County Technical School reserves the right to reject any or all bids and to waive any formalities in conjunction with the bid, retains the right to evaluate bid items as they are intended for use, to select the equipment, supplies, or services which represents the best value regardless of price. Any interpretation of equivalency shall be determined finally by the Joint Operating Committee of the Erie County Technical School.
- C. No purchase contract shall exist between the bidder/seller and Erie County Technical School until the properly executed purchase orders, including all pertinent terms, conditions, specifications, drawings and/or other attachments are issued to the bidder/seller by Erie County Technical School.
- D. The successful bidder will be awarded the contract upon approval of the Joint Operating Committee of Erie County Technical School.

- E. Bidders shall not take advantage of any errors, inconsistencies or omissions in the specifications. Bidders will be obliged to promptly notify Erie County Technical School of the same prior to the time set for the bid opening.
- F. All bids must be typed or handwritten in permanent ink on this document as the Bid Form and must be properly signed with original signatures. Changes or alterations in the bid specifications or conditions of such automatically disqualify the bid.
- G. No bidder may withdraw a bid for a period of **60 days** after the date set for the awarding thereof, nor may a bidder set a sooner expiration date on a bid other than stipulated herein.
- H. All items on this bid must be New, which shall mean first-time usage. All items on this bid shall be of current manufacture, which shall mean the most recent line of the times being made available to the bidder by the manufacturer, including the most recent release of any software under which the equipment operates.
- I. **Bids shall include the complete fabrication, delivery and installation ready for use all in accordance with these specifications. Any part or accessory not specifically mentioned herein, which is normally part of the equipment or necessary to complete installation of same shall be included in the bid price.**
- J. Standard of Quality: The various materials and products specified in the specifications by name or description is given to establish a standard of quality and of cost for bid purposes. It is not the intent to limit the acceptance to any one material or product specified, but rather to name or describe it as the absolute minimum standard that is desired and acceptable. A material or product of lesser quality would not be acceptable. Where proprietary names are used, whether or not followed by the words "or as approved equal", they shall be subject to equals only as approved by our architect and/or engineer, or other responsible party.
- K. No cash allowance: No cash allowances for any purposes are included in the specifications of this project.
- L. The bidder shall have the responsibility for loss or damage in shipment, delivery and installation of all equipment, parts and goods until time of transfer or acceptance by Erie County Technical School.
- M. The bidder shall exercise reasonable care to avoid any damage to the owner's property and shall be responsible for any repair of any such damage.

- N. Bidder warrants that each piece of equipment and software shall be free from defects in material and workmanship for a minimum period of twelve (12) months from the date of acceptance and is fit for the purpose intended. Bidder further warrants that it will, at bidder's expense, fix, repair or replace the equipment or any part thereof through the warranty term. Warranty shall include on-site service. Warranty information and description must be included with the bid submission.
- O. **Payment:** Supplier will be paid 100% of the contract price upon acceptable receipt of all items as determined by the ECTS Business Manager.
- P. Clearances: PA Acts 34, 114 and 151: The contractor, sub contractors, and material suppliers, and employees of same, who may be coming in direct contact with children, shall be required to comply with the provisions of Act 34 of 1985 and Act 151, pertaining to criminal and child abuse history. Proper certification of compliance shall be placed on file in the office of the Business Manager prior to any employee working on the premises of the school.
- Q. Suppliers should be aware that donations of equipment to Erie County Technical School can be made through our Erie County Technical School Foundation which is a charitable organization under section 501(c) (3) of the Internal Revenue Code. Donations may also qualify for tax credits under Pennsylvania tax laws. Erie County Technical School encourages contributions and donations to our educational programs.
- R. **Bid bond or bank cashier's check payable to Erie County Technical School in the amount of 10% of the total bid price is required with the bid.** Bid bonds and checks will be returned to the unsuccessful bidders upon award of a purchase order by the Joint Operating Committee.

2. PRODUCT DESCRIPTION

Product must be equal to, or better than:

Specifications for 6 Axis jointed spherical industrial robot with controller, software and pendant

1. Minimum of 6 degrees of freedom
2. Minimum of 700mm of reach, with motion range comparable to that of 6 axis Fanuc LR-Mate. Maximum of reach not to exceed 60".
3. Maximum of .05mm (.002") repeatability at full payload and speed, within entire work envelope.
4. Minimum of 5Kg. payload at the wrist
5. Minimum or equivalent of (6) functional robot EOAT inputs and (6) outputs configured to controller or I/O cards.
6. Minimum of at least (2) double acting pneumatic solenoid valves and (1) electrical connection, located near J3 through J6, or integrated into forearm.
7. Must be able to be mounted in an upright position to floor, pedestal or table top.
8. Each axis to be driven with Brushless AC motors or equivalent, mounted on sealed bearings or equivalent.
9. Fail safe mechanical brakes required on a minimum of joints 1, 2, and 3.
10. 200-220VAC single phase power supply with option of wiring to 110V single phase is desired. 3 Phase 200-440VAC is acceptable as power source.
11. At a minimum, teach pendant to have a functional LCD screen for operating software functions, functional E-stop and functional dead man switch.
12. Robot controller size specified to that of a Fanuc A or B size controllers or equivalent.
13. Controller must contain dual safety check circuitry for safeguarding, or equivalent.
14. Controller must be equivalent to a Fanuc RJ3iB version or newer (later than 2005).
15. Software version must match that of the robot and control hardware. Software must be equivalent to a Fanuc RJ3iB or newer. Application software provided shall be designated as handling tool or equivalent.
16. Documented proof of legal software license and ability to transfer to buyer is required.
17. Minimum of (1) complete set of printed manuals for robot operation & programming, electrical, mechanical, and pneumatic system schematics and maintenance must be included. An electronic version is desired, but not required.

ALTERNATE PROPOSAL – submit complete product specifications and terms for any alternates being proposed

3. PRICING BID FORM

Description		Total Bid Price
Industrial Robot- as specified- all items included		\$

4. SIGNATURE

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Firm Name _____

Address _____

City, State, Zip Code _____

Phone _____

By _____

Title _____

Signature _____ Date _____